



EXPRESS MAIL NO: EL615485134US

SEQUENCE LISTING

<110> Kaufmann, Joerg
Harrowe, Greg
Reinhard, Christoph
Kang, Sammao

<120> GENES DIFFERENTIALLY EXPRESSED IN
BREAST CANCER

<130> 200130.517/1656.002

<140> US 09/758,575

<141> 2001-01-09

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<210> 1

<211> 2366

<212> DNA

<213> Homo sapiens

<400> 1

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<210> 2

<211> 273

<212> PRT

<213> Homo sapiens

<400> 2

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 35          40          45
Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
 50          55          60
Asp Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys
 65          70          75          80
Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln
 85          90          95
Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile
100         105         110
Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val
115         120         125
Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val
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Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn
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Val Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val
165         170         175
Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu
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Pro Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly
195         200         205
Asp Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp
210         215         220
Tyr Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro
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Tyr Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe
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 <223> Putative signal peptide

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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Anti-sense oligonucleotide

<400> 4
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<210> 5
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 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Reverse control oligonucleotide

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<210> 6
 <211> 273
 <212> PRT
 <213> Homo sapiens

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 35 40 45

Gln Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro
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 65 70 75 80
 Val Phe Arg Ala Leu Ile Leu Gly Glu Leu Lys Lys Gly Gln Ser Gln
 85 90 95
 Phe Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile
 100 105 110
 Pro Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val
 115 120 125
 Arg Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val
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 Ala Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn
 145 150 155 160
 Val Cys Ala Glu Ala Val Asp Ala Ile Val Thr Arg Gln Glu Asp Val
 165 170 175
 Arg Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Lys Ala Leu
 180 185 190
 Pro Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly
 195 200 205
 Asp Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp
 210 215 220
 Val Pro Cys Met Leu Lys Val Cys His Ser Arg Asp Arg Pro Thr Pro
 225 230 235 240
 Val Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe
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 Val Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr Pro
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 Gly

<210> 7
 <211> 332
 <212> PRT
 <213> *Drosophila melanogaster*

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 35 40 45
 Val Val Ser Lys Asn His Phe Phe Lys His Ser Arg Ala Phe Leu Trp
 50 55 60
 Phe Leu Leu Cys Asn Leu Val Met Asn Ala Asp Ala Phe Ala His Ser
 65 70 75 80
 Gln Leu Leu Ile Asn Val Gln Asn Gln Gly Gly Glu Val Ile Gln Glu
 85 90 95
 Ser Ile Thr Ser Asn Ile Gly Glu Asp Leu Ile Thr Leu Glu Phe Gln
 100 105 110
 Lys Thr Asp Gly Ile Leu Ile Thr Gln Val Ile Asp Ile Arg Asn Glu
 115 120 125
 Val Gln Ile Leu Lys Ala Leu Val Leu Gly Glu Glu Lys Arg Gly Gln

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Phe Ile Ser Ser Ala Ala Met Ala Lys Leu Arg Gln Lys Asn Pro His		160
	165	170
Thr Ile Arg Thr Pro Glu Glu Asp Lys Gly Arg Glu Thr Phe Thr Met		175
	180	185
Ser Ser Trp Val Gln Leu Asn Arg Ser Leu Pro Ile Thr Arg His Leu		190
	195	200
Gln Gly Leu Cys Ala Glu Ala Met Asp Ala Thr Val Val Arg Asp Val		205
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Asp Leu Lys Ala Trp Ala Glu Leu Pro Gly Ser Ser Ile Ser Ser Leu		220
225	230	235
Lys Ala Ala Thr Glu Lys Phe Pro Asp Thr Leu Ser Thr Arg Cys Asn		240
	245	250
Glu Val Ser Ser Leu Trp Ala Pro Cys Leu Cys Asn Leu Glu Thr Cys		255
	260	265
Ile Gly Trp Val Pro Cys Gly Leu Lys Val Cys Lys Gly Lys Gly Val		270
	275	280
Ala Gly Ala Asp Ser Ser Gly Ala Gln Gln Gln Ala Gln Pro Thr Asn		285
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 <212> DNA
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<210> 9

<211> 270

<212> PRT

<213> Homo sapiens

<400> 9

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Val Arg Val Arg Leu Pro Asp Gly Gln Val Thr Glu Glu Ser Leu Gln
35        40        45
Ala Asp Ser Asp Ala Asp Ser Ile Ser Leu Glu Leu Arg Lys Pro Asp
50        55        60
Gly Thr Leu Val Ser Phe Thr Ala Asp Phe Lys Lys Asp Val Lys Val
65        70        75        80
Phe Arg Ala Leu Ile Leu Gly Glu Leu Glu Lys Gly Gln Ser Gln Phe
85        90        95
Gln Ala Leu Cys Phe Val Thr Gln Leu Gln His Asn Glu Ile Ile Pro
100       105       110
Ser Glu Ala Met Ala Lys Leu Arg Gln Lys Asn Pro Arg Ala Val Arg
115      120      125
Gln Ala Glu Glu Val Arg Gly Leu Glu His Leu His Met Asp Val Ala
130      135      140
Val Asn Phe Ser Gln Gly Ala Leu Leu Ser Pro His Leu His Asn Val
145      150      155      160
Cys Ala Glu Ala Val Asp Ala Ile Tyr Thr Arg Gln Glu Asp Val Arg
165      170      175
Phe Trp Leu Glu Gln Gly Val Asp Ser Ser Val Phe Glu Ala Leu Pro
180      185      190
Lys Ala Ser Glu Gln Ala Glu Leu Pro Arg Cys Arg Gln Val Gly Asp
195      200      205
Arg Gly Lys Pro Cys Val Cys His Tyr Gly Leu Ser Leu Ala Trp Tyr
210      215      220
Pro Cys Met Leu Lys Tyr Cys His Ser Arg Asp Arg Pro Thr Pro Tyr
225      230      235      240

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Lys Cys Gly Ile Arg Ser Cys Gln Lys Ser Tyr Ser Phe Asp Phe Tyr
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Val Pro Gln Arg Gln Leu Cys Leu Trp Asp Glu Asp Pro Tyr
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<210> 10

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Predicted protease cleavage site of SEQ ID NO: 3

<400> 10

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